

## PATENT CLAIMS

1. System for producing cables, comprising an extrusion apparatus with one or a plurality of extruders and a cross head through which the line or lines for the cable pass and after which an induction heating system is arranged, whereby downstream of the cross head and the induction heating system downstream thereof, for cross-linking and/or vulcanization of the extruded jacket layer, is a tube that constitutes a plurality of tube pieces, of which the tube piece adjacent to said cross head is a telescoping tube enabling access to said cross head,

characterized in that

said induction heating system (7) downstream of said cross head (2) is securely installed in or attached to the movable tube (6) of said telescoping tube (3, 6) and together with said tube (6) is movable, whereby said movable tube (6) of said telescoping tube (3, 6) along with said installed induction heating system (7) is insertable into or can slide over said immobile tube (3) of said telescoping tube (3, 6).

2. System in accordance with claim 1,

characterized in that

said fixed part (6) of said telescoping tube (3, 6) is a tube running largely horizontally that is suspended in the manner of a catenary curve.

3. System in accordance with claim 1,

characterized in that

said induction heating system extends over the entire length of said movable tube.

4. System in accordance with claim 1,

characterized in that

said movable tube (6) of said telescoping tube (3, 6) is produced from

an electrically non-conducting material, or a material that is as poorly conducting as possible, and that is heat-resistant and resistant to compression.

5. System in accordance with claim 4,  
characterized in that  
said movable tube (6) of said telescoping tube (3, 6) is produced from a carbon fiber compound.

6. System in accordance with claim 1,  
characterized in that  
said movable tube (6) of said telescoping tube (3, 6) in which said induction heating apparatus (7) is installed or on which said induction heating apparatus (7) is installed, together with said induction heating apparatus (7) has an exterior diameter that is smaller than the interior diameter of said fixed tube (3).

7. System in accordance with claim 1  
characterized in that  
said movable tube (6) of said telescoping tube (3, 6), upon whose exterior surface said induction heating system (7) is affixed, has an interior diameter that is greater than the exterior diameter of said fixed tube (3).

8. System in accordance with claim 1,  
characterized in that  
at least one tube piece of said fixed tube (3) at a desired site of said fixed tube (3) is produced from an electrically non-conducting material, or a material that is as poorly conducting as possible,

but that is heat-resistant and resistant to compression, and is surrounded by an induction heating apparatus (13).

9. System in accordance with claim 1,  
characterized in that  
upstream of said cross head (2) is an induction heating apparatus (4),  
in that said induction heating apparatus (4) upstream of said cross head (2) is preferably set to a temperature that is below the vulcanization temperature, while said induction heating system downstream of said cross head (2) is set for heating at a temperature that is above the vulcanization temperature.

10. System in accordance with claim 1,  
characterized in that  
in a system with a movable tube piece (6) that is insertable into said non-displaceable tube piece (3), said non-displaceable tube piece (3) of said telescoping tube (3, 6) is provided with a bearing (10) with which the upper part of said entire vulcanization tube is borne.

11. System in accordance with claim 1,  
characterized in that  
in a system with a movable tube piece (14) that can slide over said non-displaceable tube piece (3), said non-displaceable tube piece (3) of said telescoping tube (3, 6) is provided, at a location that is not covered by said slidable movable tube piece (14) when it is in its position thereover, with a bearing (10) with which the upper part of said entire vulcanization tube (3) is borne.